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#### THE CLAIMS

Please replace all prior versions and listings of claims with the amended claims as follows:

1-46. (Canceled)

47. (Previously presented) A <u>pharmaceutical</u> composition comprising <del>an effective</del> <del>amount</del> of a compound of formula **I**:

or a pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable carrier, adjuvant, or vehicle, wherein:

R<sup>1</sup> is Ar<sup>1</sup> or Cy<sup>‡</sup> (L)<sub>m</sub>R, (L)<sub>m</sub>Ar<sup>‡</sup>, or (L)<sub>m</sub>Cy<sup>‡</sup>;

 $R^2$  is hydrogen, CN, SR, OR, CO<sub>2</sub>R, OC(O)R, C(O)N, C(O)N(R)<sub>2</sub>, N(R)<sub>2</sub>,  $\frac{\partial F}{\partial R}$ -N(R)C(O)R;

T is CH [[CR3]];

A1 is C-halogen, C-CN, or C-R;

each of [[A1,]] A2[[,]] and A3 is, independently, CR4;

R<sup>3</sup> is selected from hydrogen, halogen, NO<sub>2</sub>, CN, SR, OR, N(R)<sub>2</sub>, or an optionally substituted C<sub>1-6</sub> aliphatic group; and

R<sup>4</sup> is selected from halogen, NO<sub>2</sub>, CN, -(L)<sub>m</sub>R, -(L)<sub>m</sub>Ar<sup>1</sup>, or -(L)<sub>m</sub>Cv<sup>1</sup>; or

two R<sup>4</sup> groups on adjacent atoms are taken together to form an optionally substituted 5-7 membered partially unsaturated or fully unsaturated ring having 0-3 heteroatoms independently selected from oxygen, sulfur, or nitrogen, wherein[[;]] each ring

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formed by two R<sup>4</sup> groups on adjacent atoms taken together is optionally substituted with up to 4 occurrences of Z-R<sup>X</sup>:

L is -S., O., N(R), of a C<sub>1-6</sub> alkylidene chain wherein one up to two non-adjacent methylene unit[[s]] of L is [[are]] optionally and independently replaced by -S-, -O-, -N(R)-, -N(R)C(O)-, -N(R)C(S)-, -N(R)C(O)N(R)-, -N(R)C(S)N(R)-, -N(R)CO<sub>2</sub>-, -C(O)-, -CO<sub>2</sub>-, -C(O)N(R)-, -C(S)N(R)-, -OC(O)N(R)-, -SO<sub>2</sub>-, -SO<sub>2</sub>N(R)-, or -N(R)SO<sub>2</sub>-[[.]]-N(R)SO<sub>2</sub>N(R)-, -C(R)-NN(R)-, -C(R)-NO(R)-, -C(O)C(O)-, of -CO)CH<sub>2</sub>C(O)-;

m is 0 or 1;

Ar1 is selected from

$$\frac{ZR^{X}}{S} = \frac{ZR^{X}}{N} = \frac{ZR^{X}}{N} = \frac{R^{X}}{N} = \frac{R^{X}}{N}$$

an optionally substituted 5-7 membered monocyclic ring or an 8-10 membered bicyclic ring having 0-5 heteroatoms independently selected from nitrogen, oxygen, or sulfur;

# Cy1 is selected from

an optionally substituted 3-7 membered saturated or partially unsaturated monocyclic ring having 0-3 heteroatoms independently selected from nitrogen, oxygen, or sulfur, or an 8-10 membered saturated or partially unsaturated bicyclic ring system having 0-5 heteroatoms independently selected from nitrogen, oxygen, or sulfur, wherein;

Ar¹ and Cy¹ are each optionally substituted with up to 5 occurrences of Z-R×; wherein

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- each occurrence of Z is independently a bond or a  $C_{1^-6}$  alkylidene chain, wherein up to two non-adjacent methylene units of Z are optionally replaced by -S-, -O-, -N(R)-, -N(R)C(O)-, -N(R)C(S)-, -N(R)C(O)N(R)-, -N(R)C(S)N(R)-, -N(R)CO\_2-, -C(O)-, -CO\_2-, -C(O)N(R)-, -C(S)N(R)-, -OC(O)N(R)-, -SO\_2-, -SO\_2N(R)-, or -N(R)SO\_2-[[,]]-N(R)SO\_2-N(R)-, -C(R)-NN(R)-, -C(R)-N-O(R)-, -C(O)C(O)-, or -C(O)CH\_2-C(O)-;
- each occurrence of R<sup>X</sup> is independently selected from -R', halogen, NO<sub>2</sub>, CN, -OR',
  -SR', or -N(R')<sub>2</sub>, -N(R')<sub>C</sub>(O)R', -N(R')<sub>C</sub>(S)R', -N(R')<sub>C</sub>(O)N(R')<sub>2</sub>,
  -N(R')<sub>C</sub>(S)N(R')<sub>2</sub>, -N(R')<sub>C</sub>O<sub>2</sub>R', -C(O)R', -C(S)R', -CO<sub>2</sub>R', -OC(O)R',
  -C(O)N(R')<sub>2</sub>, -C(S)N(R')<sub>2</sub>, -OC(O)N(R')<sub>2</sub>, -S(O)R', -SO<sub>2</sub>R', -S(O)<sub>2</sub>R'; -SO<sub>2</sub>N(R')<sub>2</sub>,
  -N(R')<sub>2</sub>SO<sub>2</sub>R', -N(R')<sub>2</sub>SO<sub>2</sub>N(R')<sub>2</sub>, -C(O)C(O)R', -C(O)CH<sub>2</sub>C(O)R', -NR'NR'C(O)R',
  -NR'NR'C(O)N(R')<sub>2</sub>, -NR'NR'CO<sub>2</sub>R', -C(O)N(OR') R', -C(NOR') R', -S(O)<sub>2</sub>R<sub>3</sub>,
  -N(OR')R', -C(-NIT) N(R')<sub>2</sub>; or -(CH<sub>2</sub>)<sub>2</sub>NHC(O)R'; wherein
- each occurrence of R is independently hydrogen or a an optionally substituted C<sub>1.6</sub> aliphatic group[[,]]; and
- each occurrence of R' is independently hydrogen, [[or]] <u>a</u> <del>an optionally substituted</del> C<sub>1-6</sub> aliphatic group, <u>a</u> <del>an optionally substituted</del> C<sub>6-10</sub> aryl ring, <u>a</u> <del>an optionally substituted</del> heteroaryl ring having 5-10 ring atoms, or <u>a</u> <del>an optionally substituted</del> heterocyclyl ring having 3-10 ring atoms; or
- R and R' or two occurrences of either R or R' are taken together with the atoms to which they are bound to form an optionally substituted 5-8 membered saturated, partially unsaturated, or aryl ring having 0-4 heteroatoms independently selected from nitrogen, oxygen, or sulfur; or
- two occurrences of either R' or R on the same nitrogen are taken together with the nitrogen atom to which they are bound to form an optionally substituted 5-8 membered saturated, partially unsaturated, or aryl ring having 1-4 heteroatoms independently selected from nitrogen, oxygen, or sulfur.

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48-49. (Canceled)

50. (Currently amended) A method of inhibiting c-MET kinase activity in a biological sample, wherein said biological sample is selected from a cell culture, biopsied material obtained from a mammal, saliva, urine, feces, semen, or tears, or an extract thereof; which method comprises contacting said biological sample with a composition according to claim 47 or a compound of formula 1:

or a pharmaceutically acceptable salt thereof, wherein:

R1 is Ar1 or Cy1-(L)mR, (L)mAr1, or (L)mCy1;

R<sup>2</sup> is hydrogen<del>, CN, SR, OR, CO<sub>2</sub>R, OC(O)R, C(O)R, C(O)N(R)<sub>2</sub>, N(R)<sub>2</sub>, or N(R)C(O)R:</del>

T is CH [[CR3]];

A1 is C-halogen, C-CN, or C-R;

each of [[A1,]] A2[[,]] and A3 is, independently, CR4;

R<sup>2</sup> is selected from hydrogen, halogen, NO<sub>2</sub>, CN, SR, OR, N(R)<sub>2</sub>, or an optionally substituted C<sub>1-0</sub> aliphatic group; and

R<sup>4</sup> is selected from halogen, NO<sub>2</sub>, CN, -(L)<sub>m</sub>R, -(L)<sub>m</sub>Ar<sup>1</sup>, or -(L)<sub>m</sub>Cy<sup>1</sup>; or

two R<sup>4</sup> groups on adjacent atoms are taken together to form an optionally substituted 5-7 membered partially unsaturated or fully unsaturated ring having 0-3 heteroatoms independently selected from oxygen, sulfur, or nitrogen, wherein[[;]] each ring formed by two R<sup>4</sup> groups on adjacent atoms taken together is optionally substituted with up to 4 occurrences of Z-R<sup>X</sup>:

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 $\label{eq:Lister_Lister_Lister_Lister} L is \underbrace{-S., O., N(R), or}_{N(R), or} a C_{1.6} alkylidene chain wherein one up to two non-adjacent methylene unit[[s]] of L is [[are]] optionally and independently replaced by <math>-S._{\tau}$ -O., -N(R)-C, -N(R)-C(O)-, -N(R)-C(S)-, -N(R)-C(O)N(R)-, -N(R)-C(O)N(R)-, -N(R)-C(O)N(R)-, -N(R)-C(O)N(R)-, -N(R)-C(O)N(R)-, -N(R)-N(R)-, -N(R)-N(R)-N(R)-, -N(R)-N(R)-N(R)-, -N(R)-N(R)-, -N(

m is 0 or 1:

Ar1 is selected from

an optionally substituted 5-7 membered monocyclic ring or an 8-10 membered bicyclic ring having 0-5 heteroatoms independently selected from nitrogen, oxygen, or sulfur:

# Cy1 is selected from

ring having 0-3 heteroatoms independently selected from nitrogen, oxygen, or sulfur, or an 8-10 membered saturated or partially unsaturated bicyclic ring system having 0-5 heteroatoms independently selected from nitrogen, oxygen, or sulfur, wherein; Ar¹ and Cy¹ are each optionally substituted with up to 5 occurrences of Z-R<sup>X</sup>; wherein each occurrence of Z is independently a bond or a C<sub>1</sub>-6 alkylidene chain, wherein up to two non-adjacent methylene units of Z are optionally replaced by -S-, -O-, -N(R)-, -N(R)C(O)-, -N(R)C(S)-, -N(R)C(O)N(R)-, -N(R)C(S)N(R)-, -N(R)CO<sub>2</sub>-, -C(O)-, -CO<sub>2</sub>-, -C(O)N(R)-, -C(S)N(R)-, -C(O)N(R)-, -SO<sub>2</sub>-, -SO<sub>2</sub>N(R)-, or -N(R)SO<sub>2</sub>-[[,]] -N(R)SO<sub>2</sub>N(R)-, -C(R)-NN(R)-, -C(R)-NO(R)-, -C(O)C(O)-, or -C(O)C(L)-C(O)-;

an optionally substituted 3-7 membered saturated or partially unsaturated monocyclic

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- each occurrence of R<sup>X</sup> is independently selected from -R<sup>2</sup>, halogen, NO<sub>2</sub>, CN, -OR<sup>2</sup>,
  -SR<sup>2</sup>, or -N(R<sup>2</sup>)<sub>2</sub>, -N(R<sup>2</sup>)<sub>2</sub>(Θ)R<sup>2</sup>, -N(R<sup>2</sup>)(C(S)R<sup>2</sup>, -N(R<sup>2</sup>)C(O)N(R<sup>2</sup>)<sub>2</sub>,
  -N(R<sup>2</sup>)<sub>2</sub>(S)N(R<sup>2</sup>)<sub>2</sub>, -N(R<sup>2</sup>)CO<sub>2</sub>R<sup>2</sup>, -C(O)R<sup>2</sup>, -C(S)R<sup>2</sup>, -CO<sub>2</sub>R<sup>2</sup>, -OC(O)R<sup>2</sup>,
  -C(O)N(R<sup>2</sup>)<sub>2</sub>, -C(S)N(R<sup>2</sup>)<sub>2</sub>, -OC(O)N(R<sup>2</sup>)<sub>2</sub>, -S(O)R<sup>2</sup>, -SO<sub>2</sub>R<sup>2</sup>, -SO<sub>2</sub>N(R<sup>2</sup>)<sub>2</sub>,
  -N(R<sup>2</sup>)SO<sub>2</sub>R<sup>2</sup>, -N(R<sup>2</sup>)SO<sub>2</sub>N(R<sup>2</sup>)<sub>2</sub>, -C(O)C(O)R<sup>2</sup>, -C(O)CH<sub>2</sub>C(O)R<sup>2</sup>, -NR<sup>2</sup>NR<sup>2</sup>C(O)R<sup>2</sup>,
  -NR<sup>2</sup>NR<sup>2</sup>C(O)N(R<sup>2</sup>)<sub>2</sub>, -NR<sup>2</sup>NR<sup>2</sup>CO<sub>2</sub>R<sup>2</sup>, -C(O)N(OR<sup>2</sup>)R<sup>2</sup>, -C(NOR<sup>2</sup>)R<sup>2</sup>, -S(O)<sub>2</sub>R<sub>3</sub>,
  -N(OR<sup>2</sup>)R<sup>2</sup>, -C(-NH) N(R<sup>2</sup>)<sub>2</sub>; or -(CH<sub>2</sub>)<sub>2</sub>, NHC(O)R<sup>2</sup>; wherein
- each occurrence of R is independently hydrogen or <u>a</u> <del>an optionally substituted</del> C<sub>1-6</sub> aliphatic group[[,]]; <u>and</u>
- each occurrence of R' is independently hydrogen, [[or]] <u>a</u> <del>an optionally substituted</del> C<sub>1-6</sub> aliphatic group, <u>a</u> <del>an optionally substituted</del> C<sub>6-10</sub> aryl ring, <u>a</u> <del>an optionally substituted</del> heteroaryl ring having 5-10 ring atoms, or <u>a</u> <del>an optionally substituted</del> heterocyclyl ring having 3-10 ring atoms; or
- R and R' or two occurrences of either R or R' are taken together with the atoms to which they are bound to form an optionally substituted 5-8 membered saturated, partially unsaturated, or aryl ring having 0-4 heteroatoms independently selected from nitrogen, oxygen, or sulfur; or
- two occurrences of either R' or R on the same nitrogen are taken together with the nitrogen atom to which they are bound to form an optionally substituted 5-8 membered saturated, partially unsaturated, or aryl ring having 1-4 heteroatoms independently selected from nitrogen, oxygen, or sulfur..

## 51. (Canceled)

 (Withdrawn) A method of treating or lessening the severity of a disease or condition in a patient selected from gastric cancer, pancreatic cancer, ovarian cancer,

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breast cancer, or prostate cancer comprising the step of administering to said patient a composition of claim 47.

53. (Withdrawn) The method according to claim 52, comprising the additional step of administering to said patient an additional therapeutic agent selected from mechlorethamine, chlorambucil, cyclophosphamide, melphalan, ifosfamide, methotrexate, 6-mercaptopurine, 5-fluorouracil, cytarabile, gemeitabine, vinblastine, vincristine, vinorelbine, paclitaxel, etoposide, irinotecan, topotecan, doxorubicin, bleomycin, mitomycin, carmustine, lomustine, cisplatin, carboplatin, asparaginase, and tamoxifen, leuprolide, flutamide, megestrol, imatinib (Gleevee<sup>TM</sup>), adriamycin, dexamethasone, or cyclophosphamide, wherein:

said additional therapeutic agent is appropriate for the disease being treated; and said additional therapeutic agent is administered together with said composition as a single dosage form or separately from said composition as part of a multiple dosage form.

### 54-59. (Canceled)

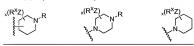
60. (Currently amended) The composition according to claim 47 [[59]], wherein Ar<sup>1</sup> is selected from one of the following groups:

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wherein x is 0-5.

### 61-80. (Canceled)

- 81. (Previously presented) The composition according to claim 47, wherein A<sup>2</sup> is CR<sup>4</sup> and R<sup>4</sup> is halogen, CN, -(L)<sub>m</sub>R, -(L)<sub>m</sub>Ar<sup>1</sup>, or -(L)<sub>m</sub>Cy<sup>1</sup>.
- 82. (Canceled)
- 83. (Previously presented) The composition according to claim 81, wherein  $A^2$  is  $CR^4$  and  $R^4$  is halogen or R.
- 84. (Previously presented) The composition according to claim 81, wherein A<sup>2</sup> is CR<sup>4</sup> and R<sup>4</sup> is -(L)<sub>m</sub>R, wherein L is -O- or -N(R)-.
- 85. (Currently amended) The composition according to claim 81, wherein  $A^2$  is  $CR^4$ ,  $R^4$  is  $-(L)_mCy^1$ , m is 0 and  $Cy^1$  is 2-2, 2-5, 2-6, 2-7, 2-8, or 2-12



$$(ZR^X)_{\lambda} \qquad (ZR^X)_{\lambda} \qquad (ZR$$

87. (Previously presented) The composition according to claim 81, wherein A<sup>2</sup> is CR<sup>4</sup>, R<sup>4</sup> is -(L)<sub>m</sub>R, and compounds have the formula **IE-1**:

IE-1.

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88. (Previously presented) The composition according to claim 81, wherein  $A^2$  is  $CR^4$ ,  $R^4$  is  $-(L)_mAr^1$ , and compounds have the formula 1E-2:

. (Previously presented) The composition according to claim 81, wherein A<sup>2</sup> is

 $CR^4$ ,  $R^4$  is -(L)<sub>m</sub>Cy<sup>1</sup>, and compounds have the formula **IE-3**:

$$\underset{m(L)}{\overset{\text{N(OH)}}{\underset{l}{\bigvee}}} R^2$$

IE-3 .

- 90. (Previously presented) The composition according to claim 47, wherein A<sup>3</sup> is CR<sup>4</sup> and R<sup>4</sup> is halogen, CN, -(L)<sub>m</sub>R, -(L)<sub>m</sub>Ar<sup>1</sup>, or -(L)<sub>m</sub>Cy<sup>1</sup>.
- 91. (Canceled)
- 92. (Previously presented) The composition according to claim 90, wherein  $A^3$  is  $CR^4$  and  $R^4$  is halogen or R.
- 93. (Previously presented) The composition according to claim 90, wherein A<sup>3</sup> is CR<sup>4</sup> and R<sup>4</sup> is -(L)<sub>m</sub>R, wherein L is -O- or -N(R)-.

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94. (Currently amended) The composition according to claim 90,  $A^3$  is  $CR^4$ ,  $R^4$  is  $-(L)_mCy^1$ , m is 0 and  $Cy^1$  is 2-2-2-5-2-6-2-7-2-8, or 2-12

95. (Currently amended) The composition according to claim 90, wherein A<sup>3</sup> is CR<sup>4</sup>, R<sup>4</sup> is -(L)<sub>m</sub>Ar<sup>1</sup>, m is 0 and Ar<sup>1</sup> is <del>1.5, 1.6, 1.11, 1.12, 1.13, 1.19, 1.24, or 1.25</del>

$$\frac{1}{\sqrt{\frac{(ZR^X)_{\lambda}}{R^X}}} \frac{\sqrt{\frac{N}{R}} \sqrt{(ZR^X)_{\lambda}}}{\sqrt{\frac{(ZR^X)_{\lambda}}{R^X}}} \frac{\sqrt{\frac{N-NH}{R}} \sqrt{(ZR^X)_{\lambda}}}{\sqrt{\frac{(ZR^X)_{\lambda}}{R^X}}} \frac{\sqrt{\frac{N-NH}{R}} \sqrt{(ZR^X)_{\lambda}}}{\sqrt{\frac{(ZR^X)_{\lambda}}{R^X}}} \frac{\sqrt{\frac{N-NH}{R}} \sqrt{(ZR^X)_{\lambda}}}{\sqrt{\frac{(ZR^X)_{\lambda}}{R^X}}} \frac{\sqrt{\frac{N-NH}{R}} \sqrt{(ZR^X)_{\lambda}}}{\sqrt{\frac{N-NH}{R}}} \frac{\sqrt{\frac{N-NH}{R}}}{\sqrt{\frac{N-NH}{R}}} \frac{\sqrt{\frac{N-N$$

96. (Previously presented) The composition according to claim 90, wherein A<sup>3</sup> is CR<sup>4</sup>, R<sup>4</sup> is -(L)<sub>m</sub>R, and compounds have the formula **1F-1**:

IF-1.

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97. (Previously presented) The composition according to claim 90, wherein  $A^3$  is  $CR^4$ ,  $R^4$  is  $-(L)_mAr^1$ , and compounds have the formula 1F-2:

IF-2.

98. (Previously presented) The composition according to claim 90, wherein  $A^3$  is  $CR^4$ ,  $R^4$  is  $-(L)_mCy^1$ , and compounds have the formula 1F-3:

IF-3.

99-100. (Canceled)

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101. (Currently amended) The composition according to claim 47, selected from one of the following compounds:

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I-22,

I-24,

I-23,